

SADIS COST RECOVERY & ADMINISTRATIVE GROUP (SCRAG)

FIFTEENTH MEETING

(Frankfurt, 4 November 2014)

2013 ACTUAL SADIS COSTS

(Presented by the United Kingdom)

REFERENCES

SADIS Agreement

SCRAG Reports 1-14

SADISOPSG/19 Executive Summary

1. INTRODUCTION

- 1.1 Article IX of the SADIS Agreement identifies that the United Kingdom shall furnish on or before 30 June of each year, a statement of the actual costs of the SADIS, expressed in pounds sterling, for the previous calendar year. These costs are identified in TABLE 1.
- 1.2 The format of the table is similar to that provided for previous years and is consistent with information provided in the SADIS Inventory.

. DISCUSSION

2.1 Notes to the actual costs for 2012 and forecast costs for 2013

a. Communications between Whitehill and the Met Office

Terrestrial communications costs between Exeter and the SADIS Uplink site at Whitehill became effective from 1st October 2003. The Vodafone¹ circuit continues to bill at £1569.75 per annum while the BT circuits are billing at £4246 per annum.

b. NATS Links

Communications costs between the SADIS Gateway, operated by NATS, and the Met Office are provided here. NATS own the links and are billed for the circuits. NATS invoice the Met Office for the Met Office share of the costs. The ISDN back-up link remains in place and has been used operationally.

c. Message Switch

In 2013, data feeds were provided to SADIS 2G, Secure SADIS FTP and the MetSwitch SADIS 2G downlink monitoring systems. Internet bandwidth costs in 2013 were £7362. In 2014 the charges are expected to be £6512 annually at the current bandwidth as increased bandwidth is offset by cheaper 'per unit' rates. FTP equipment running costs include software licences, depreciation and contractor support. These will reduce substantially in future years now that the 'classic' SADIS FTP systems have been fully decommissioned.

d. Service Desk equipment and Serial Communications

These charges cover equipment costs for the service desk functions and support of serial communications equipment.

e. Satellite Segment

From 1 January 2011 a new 5-year lease was negotiated with Cable & Wireless using a reduced bandwidth providing a significant cost saving to SADIS users. The current lease will expire on 31 December 2015.

f. Annual Maintenance

Maintenance comprises:- (i) A Facilities Management charge with Vodafone for the SADIS 2G Equipment at Whitehill. From January 2012, SADIS is the sole user of the facility and the full cost of £6300 per annum is charged to the SADIS programme. (ii) A maintenance contract for SADIS 2G with Ultra - AEP Networks for the 12 months to 31 Dec 2013 for £35172 and for the 12 months to 31 Dec 2014 for £36228. (iii) IT Halls costs are charges made to the SADIS Programme based on floor usage of the IT Halls at Exeter for all SADIS equipment.

g. Ad-hoc maintenance

SCRAG/6 proposed that a charge of £5,000 be budgeted for ad-hoc maintenance activity in future years. In 2013, ad-hoc maintenance charges of £1366 were incurred comprising procurement of a specific SADIS 2G downlink software module to enhance the quality of the SADIS 2G downlink signal.

¹ Note, Vodafone have now taken over the Cable and Wireless (C&W) telecoms line used in relation to SADIS and also the Satellite uplink facility at Whitehill.

h. Help Desk and Other staff costs

The cost rates have been updated using the latest available figures. The percentage attribution rates can be found in the SADIS Inventory.

i. Additional support

In 2013, staff attribution rates and staff costs have remained unchanged from 2011. Staff costs for 2014 are expected to remain largely unchanged from 2013.

j. Travel Costs

Actual travel and subsistence costs for Met Office staff to attend the annual SADISOPSG and SCRAG meetings are included here.

k. Cost of depreciated capital

See WP/8

l. Cost of Capital

Cost of capital for 2013 has been calculated using the revised methodology applied in 2008 and described in SCRAG 10/ WP/13.

m. Administrative costs (bank charges, couriered invoices etc)

Following SCRAG Conclusion 14/7, this item includes costs relating to the processing of invoices (usually when administration charges reduce the amount actually received by the SADIS Provider by a small amount), or the cost of couriered invoices where normal surface mail is unreliable. For 2013 some costs relating to prior years have been included. For future years those administrative costs applicable to the relevant year will be listed.

2.2 Notes on SADIS Gateway Costs

n. Staff Costs – Systems Engineers

SADIS Gateway costs were detailed in SCRAG10 WP/14 and the revised basis of calculation was applied from January 1st 2009. Note, staff roles have been redefined since the last SCRAG report, although the overall impact on the provision of the service is trivial. As such the titles of operational staff have been modified:

Staff roles identified for 2013:

Operational Staff	Air Traffic Services Asst.
Engineering Staff	Systems Engineer
Administration Support	Administration Officer
Asset Engineering Support	Asset Management Activities

For 2014 onwards, these roles are identified as:

Operational Staff
 Engineering Staff
 Administration Staff

These are now reflected in Table 1

o. Systems Maintenance

For 2013 these items were identified as:

IP Comms link to UKMO
X.25 Comms link to UKMO
Systems Maintenance

From 2014, these items will be identified as:

Communications
Maintenance
T&RE

For simplicity, in Table 1 these are listed separately.

p. Depreciation

The SADIS Gateway became fully depreciated during 2008.

Note a project to update the SADIS Gateway will result in charges being applied from 2015. See Working Paper 10 to this meeting and associated estimated costs to SADIS for years 2015 to 2018 in relation to this upgrade. At SCRAG/14 it had been anticipated that charges would commence in 2014, hence the difference between 2014 Estimate from SCRAG/14 and 2014 FOO (this meeting).

2.3 Notes on CAA and ICAO Administration Costs

q. CAA Administration Costs comprise the following:

Met Authority Regulatory oversight	£3,530
Travel costs	£1,650
Total	£5,180

r. ICAO Administration costs are detailed in WP/4.

3 ACTION

3.1 The SCRAG/15 is requested to note the cost information provided by the United Kingdom and approve for these costs to be recovered from States within the Cost Recovery Scheme.

SCRAG/14 WP/5 Annex 1.

TABLE 1: 2013 and 2014 SADIS Costs

INVENTORY REF:	Note	DESCRIPTION	2013 Actual (Jan-Dec)	2013 FOO (SCRAG14)	2013 Estimate (SCRAG13)	2014 FOO (SCRAG15)	2014 Estimate (SCRAG14)		
1		UK MET OFFICE COSTS							
		1. Equipment							
		Principally procured for SADIS							
		comms between Whitehill & Met Office	a	SADIS 2G	5,816	5,436	6,364	5816	5,436
		comms link SADIS Gateway & Met Office	b	SADIS 2G	3,340	3,340	3,340	3340	3,340
		ISDN back-up link		ISDN Back-up	372	372	372	372	372
		Not procured principally for SADIS							
		message switch (FTP)	c	Secure SADIS FTP	7,380	6,154	16,000	7,380	6,000
		message switch (2G)		SADIS 2G	5,461	4,554	10,000	5,461	4,500
		internet bandwidth (FTP)		FTP	7,362	7,362	11,500	6,512	3,720
		FTP equipment running costs		FTP	33,805	33,805	20,000	13,061	34,000
		Service Desk Equipment costs	d	Service Desk eqpt	12,042	12,040	15,000	12,473	12,000
		Serial Comms Costs and maintenance		Serial Comms	9,848	9,848	10,000	10,601	10,000
		sub total			85,426	82,911	92,576	65,016	79,368
		2. Procured Services							
		space segment annual lease	e	Satellite Segment	54,660	54,660	54,660	54,660	54,660
		annual maintenance	f	2G Maintenance	35,172	35,172	33,548	36,228	35,172
				2G Facilities Mgmt	6,300	6,300	4,275	6,300	6,300
				IT Halls	14,824	14,824	17,000	14863	15,000
			g	ad hoc maintenance	1,366	1,500	5,000	5,000	5,000
		sub total			112,322	112,456	114,483	117,051	116,132
		3. Annual Staff Requirements							
		Help Desk	h	Help Desk	5,510	5,510	5,500	5,916	5,500
				Technical Team Leader	12,471	12,098	11,000	12,647	12,000
				Network Systems Supervisor	24,943	24,196	22,000	25,295	24,000
		Additional Support							
		Systems Integration Team	i	Network Computer Engineer	4,866	4,866	4,866	4,866	4,866
		Message Switching		Message Switching Manager	5,214	5,214	5,214	5,214	5,214
		Administrator		Executive Officer	55,612	55,612	55,612	55,612	55,612
		International Aviation Management		Aviation Manager	12,805	12,805	12,805	12,805	12,805
		Data Traffic		Communications Engineer	1,738	1,738	1,738	1,738	1,738
		Contract Management		Senior Procurement Officer	1,390	1,390	1,390	1,390	1,390
		Message Switching Team		Technical Officer	5,214	5,214	5,214	5,214	5,214
		Invoice Administration		Invoice Officer & Business Acct	13,354	13,354	12,165	13,354	12,165
		CIDA		CIDA & Infrastructure Engineer	0	0	0	0	0
		SADIS Satellite Upgrade/decommissioning		Resource costs					
		Travel Costs	j	SADISOPSG & SCRAG	1,990	2,000	5,000	2,000	5,000
		sub total			145,107	143,997	142,504	146,051	145,504
		TOTAL			342,855	339,364	349,563	328,118	341,004
		Cost of Depreciated Capital							
			k	SADIS 2G	11,616	11,616	11,616	8,712	8,712
				FTP enhancements	0	0	0	0	0
				SADIS 2G ground segment Refres	0	0	0	0	0
		sub total			354,471	350,980	361,179	336,830	349,716
		Administrative costs	l	Cost of Capital	19,348	20000	20,000	20000	20,000
			m	Financing costs	271	0	0	100	0
		Total UKMO Costs			374,090	370,980	381,179	356,930	369,716

TABLE 1: 2013 and 2014 SADIS Costs

INVENTORY REF:	Note	DESCRIPTION	2013	2013	2013	2014	2014
			Actual (Jan-Dec)	FOO (SCRAG14)	Estimate (SCRAG13)	FOO (SCRAG15)	Estimate (SCRAG14)
2 NATS Gateway Costs							
Staff Costs							
	n						
Operational Staff		Air Traffic Services Asst.	252,917	250,759	268,039	270,739	255,164
Engineering Staff		Maintenance Engineer	2,397	11,209	12,511	10,210	11,639
Engineering Staff		Asset Management	2,512	3,331	7,194	N/A	3,454
Administration Staff		Administration Officer	24,732	27,348	25,022	801	28,472
		sub total	282,558	292,647	312,766	281,750	298,729
Systems Maintenance							
	o	IP Comms link to UKMO	18,128	18,128	12,040	N/A	18,672
		X.25 Comms link to UKMO	0	0	0	N/A	0
		Systems Maintenance	6,264	6,264	6,264	N/A	8,610
		Communications	N/A	N/A	N/A	4,000	N/A
		Maintenance	N/A	N/A	N/A	1,250	N/A
		T&RE	N/A	N/A	N/A	471	N/A
Sadis Gateway Upgrade (Capital Pip		Capitalised Staff Costs	0	0	0	0	15,899
Cost of Depreciated Capital		Hardware Depreciation	0	0	0	0	20,458
		Interest @ 6.75%	0	0	0	0	11,043
SADIS Backup Enhancement		Procurement & Installation	0	0	0	0	0
		Annual support costs	1,250	1,250	1,250	0	1,250
Total NATS Gateway Costs			308,200	318,289	332,320	287,471	374,661
CAA Administration Costs	q		5,180	5,000	5,000	5,000	5,000
ICAO Administration Costs	r		52,369	53,062	48,429	51,686	53,062
TOTAL SADIS COSTS			739,839	747,331	766,928	701,087	802,439